

Appl. No. 10/506,290  
Amendment and/or Response  
Reply to Office action of 24 May 2006

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Page 2 of 9

AUG 23 2006

**Amendments to the Claims:**

A listing of the entire set of pending claims (including amendments to the claims, if any) is submitted herewith per 37 CFR 1.121. This listing of claims will replace all prior versions, and listings, of claims in the application.

**Listing of Claims:**

1. (Currently amended) ~~Flat~~ A flat panel display apparatus comprising  
plasma discharge cells ~~having that include~~ sustain electrodes (2e) and scan electrodes ~~(2b)~~; and  
a drive circuit ~~having a circuit~~ for providing data arranged in subfields to the discharge cells, ~~the drive circuit incorporating which includes~~ an energy recovery circuit, and  
means for activating the energy recovery circuit only for a part of the total number of subfields.
2. (Currently amended) ~~Flat~~ The flat panel display apparatus ~~according to of~~ claim 1, wherein ~~said the~~ the part of the number of subfields has on average a lower weight than the rest of the sub-fields.
3. (Currently amended) ~~Flat~~ The flat panel display apparatus ~~as claimed in of~~ claim 2, wherein the part of the subfields all have a lower weight or an equal weight compared to the subfields for which in operation the energy recovery circuit is not activated.
4. (Currently amended) ~~Flat~~ The flat panel display apparatus ~~according to of~~ claim 1, wherein data electrodes ~~(1b)~~ are ~~present being positioned~~ arranged in a zigzag configuration.

Appl. No. 10/506,290  
Amendment and/or Response  
Reply to Office action of 24 May 2006

Page 3 of 9

5. (Currently amended) ~~Flat~~ The flat panel display apparatus according to of claim 1, wherein ~~including~~  
\_\_\_\_\_ rows and columns of pixels are present, each pixel comprising ~~including~~ at least one discharge cell,  
\_\_\_\_\_ wherein a data electrode ~~(1b)~~ in a column direction being is alternately coupled in subsequent rows to a cell of a pixel in a first column and to a cell of a pixel in a column adjacent to the first column.
  
6. (Currently amended) ~~Flat~~ The flat panel display apparatus according to of claim 5, wherein the data electrode ~~(1b)~~ is coupled to cells, ~~which~~ that emit substantially a same color.
  
7. (Currently amended) ~~Flat~~ The flat panel display apparatus according to of claim 1, wherein the display apparatus ~~comprises~~ includes a discriminator having means for choosing the part of the subfields during which the energy recovery circuit is activated on the basis of the data to be displayed.
  
8. (Currently amended) ~~Flat~~ The flat panel display apparatus according to of claim 7, wherein the discriminator in operation discriminates depending on at least one of a ~~the display-load and/or a subfield-load~~.
  
9. (Currently amended) ~~Flat~~ The flat panel display apparatus according to of claim 1, wherein the number of subfields in which energy recovery is applied is fixed.
  
10. (Currently amended) ~~Method~~ A method of displaying images on a flat-panel display apparatus ~~comprising that includes~~ plasma discharge cells having sustain electrodes and scan electrodes; a drive circuit having a circuit for providing data arranged in subfields to the discharge cells; and an energy recovery circuit, the method comprising ~~the step of~~ activating the energy recovery circuit only for a part of the total number of subfields.

**Appl. No. 10/506,290  
Amendment and/or Response  
Reply to Office action of 24 May 2006**

**Page 4 of 9**

**11. (New) A display comprising:**

**a plurality of plasma discharge cells, each discharge cell of the plurality of discharge cells including a plurality of subfields; and**

**an energy recovery circuit that is configured to recover energy from select subfields of the plurality of subfields, the select subfields being fewer than a total number of the subfields of the discharge cell.**

**12. (New) The display of claim 11, wherein**

**each subfield of the discharge cell has an associated illumination weight, and the select subfields have, on average, a lower weight than a remainder of the subfields of the total number of subfields.**

**13. (New) The display of claim 12, wherein**

**each of the select subfields has a lower weight than the remainder of the subfields.**

**14. (New) The display of claim 11, including**

**data electrodes that are arranged in a zigzag configuration.**

**15. (New) The display of claim 11, including**

**rows and columns of pixels, each pixel including at least one discharge cell, and**

**data electrodes that are arranged to couple a pixel in a first column of a row to a pixel in an adjacent column of a subsequent row.**

**Appl. No. 10/506,290  
Amendment and/or Response  
Reply to Office action of 24 May 2006**

**Page 5 of 9**

16. (New) The display of claim 15, wherein  
each pixel includes discharge cells of different colors, and  
the data electrodes are arranged to couple discharge cells in the first column  
of the row to discharge cells of a same color in the adjacent column of the  
subsequent row.
17. (New) The display of claim 11, including  
a discriminator that is configured to select the select subfields based on  
display data.
18. (New) The display of claim 17, wherein  
the discriminator is configured to select the select subfield based on a display-  
load.
18. (New) The display of claim 17, wherein  
the discriminator is configured to select the select subfield based on a load  
associated with the select subfield.
19. (New) The display of claim 17, wherein  
the discriminator is configured to select the select subfield based on a  
variance of the display data at the select subfield.
20. (New) The display of claim 11, wherein  
the select subfields are a predetermined subset of the plurality of subfields.